

CLAIMS

1. A method of assisting a stenting procedure in a human or an animal, comprising the steps of:

obtaining a first set of blood flow data;
generating at least two blood flow factor values from said first set of blood flow data;
correlating said at least two blood flow factor values; and
assessing blood flow based upon said correlated blood flow factor values.

2. The method of claim 1, further comprising the step of inserting a stent at a location within a lumen, the location based upon the assessed blood flow.

3. The method of claim 2, wherein said stent is expanded in stages.

4. The method of claim 1, wherein said steps of obtaining a first set of blood flow data, generating at least two blood flow factor values from said first set of blood flow data, correlating said at least two blood flow factor values and assessing blood flow at least on said correlated blood flow factor values occur before inserting a stent.

5. The method of claim 1, wherein said steps of obtaining a first set of blood flow data, generating at least two blood flow factor values from said first set of blood flow data, correlating said at least two blood flow factor values and assessing blood flow at least on said correlated blood flow factor values occur after inserting a stent.

6. The method of claim 1, wherein said at least two blood flow factor values include at least one of a mean flow velocity value, a systolic acceleration value, a pulsatility index value, a natural logarithm of systolic acceleration value, a peak systolic velocity value, an end diastolic velocity value, a peak systolic time value, an end diastolic time value, an

acceleration/mean flow velocity index value, a velocity/impedance index value and an acceleration/impedance index value.

7. The method of claim 1, further comprising the step of correlating at least three blood flow factor values.

8. The method of claim 1, wherein said step of obtaining intracranial blood flow data comprises use of emissive and reflective wave technology.

9. The method of claim 8, wherein said emissive and reflective wave technology includes ultrasound technology.

10. The method of claim 9, wherein said ultrasound technology includes Doppler technology.

11. The method of claim 9, wherein said ultrasound technology includes thin wire intravascular ultrasound technology

12. The method of claim 8, wherein said emissive and reflective wave technology includes laser technology.

13. The method of claim 1, further comprising the step of generating a reference data set of correlated blood flow factor values.

14. The method of claim 1, further comprising the step of supplementing a reference data set of correlated blood flow factor values with additional correlated blood flow factor values and data.

15. The method of claim 1, further comprising the step of comparing said correlated blood flow factor values with a reference data set of correlated blood flow factor values.

16. The method of claim 1, further comprising the step of designing a stent.

17. The method of claim 16, further comprising the step of infusing a stent with at least one chemical composition.

18. The method of claim 16, further comprising the step of coating a stent with at least one chemical composition.

19. The method of claim 16, further comprising the step of inserting the blood flow factor values into a schema.